PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 1593 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/010754 22.07.2004 23.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant KYOWA HAKKO CHEMICAL CO., LTD. ۱. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE · INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/010754

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International application No.
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Statement			
Novelty (N)	Claims	1-8	_ Y
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Inventive step (IS)	Claims	1-8	 _ ,
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Industrial applicability (IA)	Claims	1-8	
	Claims		 1

2. Citations and explanations:

Document 1: JP 11-228478 A (Mitsubishi Chemical Corp.), 24 August 1999

Document 2: JP 11-222453 A (Mitsubishi Chemical Corp.), 17 August 1999

Document 3: JP 8-500615 A (Neste Oy) 23 January 1996

The inventions of claims 1-8 are not disclosed in any of the documents cited in the ISR and appear to possess novelty and involve an inventive step. In particular, none of the documents discloses using a phase-transfer catalyst in a process for the production of α , α -bis(hydroxymethyl) alkanals.